

REED LAW OFFICE

HENRY M. REED III  
2218 FRANKFORT AVENUE  
LOUISVILLE, KENTUCKY 40206-2408

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E-MAIL: hankreed@aol.com

March 8, 2004

**RECEIVED**

MAR 17 2004

PUBLIC SERVICE  
COMMISSION

Mr. Thomas M. Dorman  
Environmental and Public Protection Cabinet  
Public Service Commission  
211 Sower Blvd.  
PO Box 615  
Frankfort, Kentucky 40602-0615

**In re: Cumberland County Water District Case No. 2001-114  
Supplemental Petition**

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Mr. Dorman:

The Cumberland County Water District ("District") previously filed its Original Petition with the Public Service Commission of Kentucky ("Commission") seeking a Certificate of Public Convenience and Necessity for the construction of certain improvements to its water distribution system ("Original Projects") and the approval of financing provided by a Loan and Grant provided by the US Department of Agriculture, Rural Development ("USDARD").


On May 21, 2001 the Commission entered its Order granting the Certificate and approving the financing plan.

The District has proceeded to construct the Original Projects at a cost less than that originally anticipated with the result that there is now available to the District for Supplemental Projects certain USDARD Grant funds which the District would now like to utilize together with certain other monies available to it, for the construction of the Supplemental Projects identified in the enclosed Supplemental Petition.

Therefore, there is attached hereto ten copies of a Supplemental Petition accompanied by an Exhibit Addendum containing that information the District believes the Commission will require in granting its request.

If any additional information is required, please do not hesitate to contact the undersigned.

Sincerely yours,

  
HENRY M. REED III

HMR:jmz  
Enclosures

cc: Monty Rhody, P.E.  
Monarch Engineering, Inc.  
556 Carlton Drive  
Lawrenceburg, Kentucky 40342

Mr. Kevin Antle  
District Loan Manager  
US Department of Agriculture, Rural Development  
957 Campbellsville Road  
Columbia, Kentucky 42728

Mrs. Elizabeth Cornwall, Manager  
Cumberland County Water District  
1236 Columbia Road  
Burkesville, Kentucky 42717

SUPPLEMENTAL APPLICATION FOR CERTIFICATE OF  
PUBLIC CONVENIENCE AND NECESSITY  
OF CUMBERLAND COUNTY WATER DISTRICT

RECEIVED

CASE NO. 2001-114

MAR 17 2004

PUBLIC SERVICE  
COMMISSION

Index to Supplemental Petition

1. Supplemental Petition of Cumberland County Water District ("District") for Certificates of Public Convenience and Necessity.
2. Supplemental Certification of District Chairman Regarding Compliance with Public Service Commission Requirements.
3. USDARD Construction Bid Approval.
4. Final Engineering Report of Monarch Engineering, Inc., Engineers for District.

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE SUPPLEMENTAL APPLICATION OF )  
THE CUMBERLAND COUNTY )  
WATER DISTRICT, A WATER DISTRICT )  
ORGANIZED PURSUANT TO CHAPTER 74 OF THE )  
KENTUCKY REVISED STATUTES, IN CUMBERLAND )  
COUNTY, KENTUCKY, FOR A CERTIFICATE )  
OF PUBLIC CONVENIENCE AND NECESSITY )  
AUTHORIZING AND PERMITTING SAID WATER )  
DISTRICT TO CONSTRUCT WATER DISTRIBUTION )  
SYSTEM IMPROVEMENTS, CONSISTING OF THE )  
SUPPLEMENTAL PROJECTS HEREIN )  
AFTER IDENTIFIED )

SUPPLEMENTAL PETITION

Case No. 2001-114

Pursuant to KRS 278.023, this Supplemental Petition of the Cumberland County Water District of Cumberland County, Kentucky ("District") respectfully states:

1. That the District is a water district of Cumberland County, Kentucky created pursuant to the provisions of KRS 65.810 et seq. and existing under and by virtue of Chapter 74 of the Kentucky Revised Statutes for the purpose of operating, maintaining and managing a water distribution system ("System") as same presently exists and as same is proposed to be improved and expanded ("Projects").

2. That the address of said District is "Cumberland County Water District, 1236 Columbia Road, Burkesville, Kentucky 42717."

3. That the District was formed pursuant to the statutes cited, ordinances of the County of Cumberland, Kentucky, and an Order of the Public Service Commission entered on February 24, 1995 (Case No. 94-437) approving the merger of the former Marrowbone Water District and the former South Cumberland Water District, for the purpose of operating, managing, and maintaining the System.

4. That the boundaries of the District include substantially all of the County of Cumberland, Kentucky, except for those areas presently served (or to be served) by the City of Burkesville, Kentucky ("City").

5. In 2001 the District filed its Original Petition with the Commission in Case No. 2001-114 seeking (a)

**SUPPLEMENTAL CERTIFICATION OF DISTRICT CHAIRMAN REGARDING  
COMPLIANCE WITH PUBLIC SERVICE COMMISSION REQUIREMENTS**

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The undersigned certifies that he is the duly authorized and acting Chairman of the Cumberland County Water District (the "District") which intends to file with the Public Service Commission of Kentucky ("PSC") a Supplemental Petition seeking a Certificate of Public Convenience and Necessity in connection with the construction of additions, extensions, and improvements to the District's water distribution system, consisting of (a) Jones Fork area consisting of approximately 20,000 LF of 4-inch water line and a hydropneumatic booster pump station and (b) Ferris Fork and Casey Fork areas (located in Metcalfe County) consisting of approximately 30,000 LF of 4-inch water line and 6,000 LF of 3-inch water line (collectively, the "Projects").

The undersigned has executed this Certificate in reliance upon information and advice of Monarch Engineering, Inc., Lawrenceburg, Kentucky (the "Engineers") which firm has been retained by the District to provide engineering services in connection with the Projects.

The undersigned states that the proposed plans and specifications for the Projects have been designed to meet the minimum construction and operating requirements established in 807 KAR 5:066, Section 4(3) and (4), Section 5(1), Sections 6 and 7, Section 8(1) through (3), Section 9(1) and Section 10.

The undersigned states that all other State approvals or permits have been obtained.

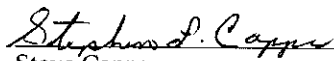
The undersigned further certifies that the Projects are to be financed from surplus United States Department of Agriculture, Rural Development ("USDARD") Grant monies and a Grant of Tobacco Settlement monies from Metcalfe County Fiscal Court and will not require the District to become indebted or increase its present schedule of rates and charges for service.

Based upon the information supplied by the Engineers, it is estimated that construction of the Project will commence on or about March 15, 2004 and end on or about September 15, 2004.

Based upon the advice of the Engineers and USDARD, the undersigned believes that no increase in water rates will be required by the District, as existing rates are estimated to be sufficient to meet the expenses incident to the operation and maintenance of the District's water distribution system and pay and retire all of the District's outstanding Water Revenue Bonds.

Dated this 27 day of February, 2004.

**CUMBERLAND COUNTY WATER DISTRICT**

  
Steve Capps,  
Chairman



United States  
Department of  
Agriculture

Rural  
Development

771 Corporate Drive, Suite 200  
Lexington, KY 40503-5477  
(606) 224-7336 TTY(606) 224-7422

February 18, 2004

SUBJECT: Cumberland County Water District  
Water line extensions-Jones Ridge  
Contract Award Concurrence

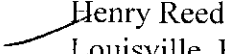
TO: Rural Development Manager  
Columbia, Kentucky

Based on the bids received and the recommendation of the consulting engineer, Rural Development concurs in the award of subject contract to the low bidder, United Pipeline, Inc., in the amount of \$130,635.00.

If you have any questions, please contact Julie Anderson, State Engineer, at (859) 224-7348.

  
KENNETH SLONE  
State Director  
Rural Development

cc: Monarch Engineering, Inc.  
Lawrenceburg, Kentucky

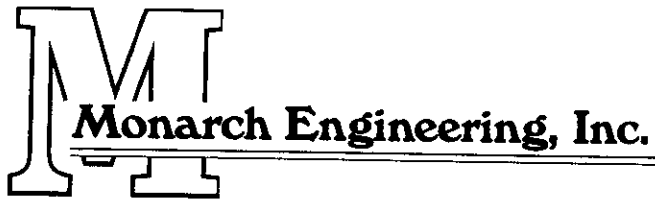
  
Henry Reed  
Louisville, Kentucky

# **FINAL ENGINEERING REPORT**

**JONES RIDGE, FERRIS FORK AND CASEY FORK  
WATER SYSTEM EXTENSIONS  
CUMBERLAND COUNTY WATER DISTRICT  
CUMBERLAND COUNTY, KENTUCKY**

**FEBRUARY 2, 2004**

**PREPARED BY  
MONARCH ENGINEERING, INC.**



February 2, 2004

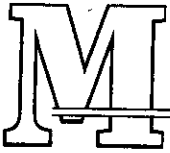
Mr. Steve Capps, Chairman  
Cumberland County Water District  
1236 Columbia Road  
Burkesville, KY 42717

Re: Jones Ridge & Ferris Fork  
Water Line Extensions

Dear Mr. Capps:

On January 30, 2004, bids were received by the Cumberland County Water District for the construction of two projects consisting of water lines for the Jones Ridge area and also for the Ferris Fork & Casey Fork areas. Six contractors submitted bids for each project.

For the Jones Ridge project, the lowest Base Bid was submitted by United Pipeline, Inc. located in Tompkinsville, KY, in the amount of \$78,325.00. In addition, the amount of the Additive Alternate No. 1 was \$55,760.00. After further review of the bid submitted by United Pipeline, Inc., it was discovered that the unit price submitted for Item 1 of the Additive Alternate No. 1 of the Bid Schedule, 4-Inch PVC SDR 21 Water Line, was not in compliance with the contract requirements. The Contract Documents required that the contract would be awarded based upon the lowest Base Bid which United Pipeline, Inc. has complied with. For consideration of the Alternate portion, the contract documents required that similar items of the Base Bid proposed in the Alternate must have matching unit prices. The unit price submitted by United Pipeline, Inc. for Item No.1 in the Base Bid was \$3.00 per linear foot and for the Alternate was \$3.25 per linear foot. In recognition of the discrepancy, the unit price should be adjusted to conform with the contract requirements which would result in an adjusted and lower total cost for the Additive Alternate No. 1. The adjusted total cost of Additive Alternate No. 1 should be \$52,310.00. Combining the Base Bid with the Additive Alternate No. 1 results in a total amount of \$130,635.00. A review of the Final Project Budget indicates that the total project costs have been estimated to be \$171,000.00, copy of which is attached. According to our documents, we have determined that there are funds available from the previous water system extension project financed by USDA Rural Development in the amount of \$178,034.36. Therefore, based on the fact that sufficient funds are available to construct the Base Bid portion along with the Additive Alternate No. 1 portion of the Jones Ridge water system extension, we recommend that the Cumberland County Water



February 2, 2004  
Page Two

District consider awarding a contract to United Pipeline, Inc., in the amount of \$130,635.00. This recommendation is contingent upon concurrence by Rural Development and also the Kentucky Public Service Commission.

In regard to the Ferris Fork and Casey Fork project, the lowest Base Bid was submitted by Central Pipe & Excavation, Inc. located in Red Boiling Springs, TN, in the amount of \$128,765.00. A review of the Final Project Budget indicates that the total project costs have been estimated to be \$177,000.00, copy of which is attached. As a result of discussions with Metcalfe County Judge Executive Donald Butler, he indicated at the Bid Opening that his agency had sufficient funds to contribute to the development of the entire project. Therefore, based on the commitment of funds from Metcalfe County to construct the Ferris Fork and Casey Fork water system extension, we recommend that the Cumberland County Water District consider awarding a contract to Central Pipe & Excavation, Inc., in the amount of \$128,765.00. This recommendation is contingent upon concurrence by the Kentucky Public Service Commission and receipt of funds to the District from Metcalfe County for the total project costs. The final budget includes an amount of \$13,353.76 for contingencies and in the event funds remain once the entire project is constructed, we recommend that these funds be returned to Metcalfe County.

Should you need additional information, please advise.

Sincerely,

A handwritten signature in black ink, appearing to read 'Monty Rhody', is written above the printed name.

Monty Rhody, P.E.

/jmr

cc Charles Blankenship  
Rural Development

Donald Butler  
Metcalfe County Judge Executive

Attachments



**FINAL PROJECT BUDGET  
JONES RIDGE WATER SYSTEM EXTENSION  
CUMBERLAND COUNTY WATER DISTRICT  
CUMBERLAND COUNTY, KENTUCKY**

**FEBRUARY 2, 2004**

**PROJECT COSTS:**

|                           |                     |
|---------------------------|---------------------|
| DEVELOPMENT               | \$130,635.00        |
| CONTINGENCY               | 12,926.78           |
| ENGINEERING               | 13,899.56           |
| INSPECTION                | 11,038.66           |
| LEGAL                     | 2,500.00            |
| <b>TOTAL PROJECT COST</b> | <b>\$171,000.00</b> |

**PROJECT FINANCING:**

|                                |                     |
|--------------------------------|---------------------|
| RURAL DEVELOPMENT              | \$171,000.00        |
| <b>TOTAL PROJECT FINANCING</b> | <b>\$171,000.00</b> |

**FINAL PROJECT BUDGET  
FERRIS FORK & CASEY FORK WATER LINE EXTENSIONS  
CUMBERLAND COUNTY WATER DISTRICT  
CUMBERLAND COUNTY, KENTUCKY**

**FEBRUARY 2, 2004**

**PROJECT COSTS:**

|                                  |                     |
|----------------------------------|---------------------|
| DEVELOPMENT                      | \$128,765.00        |
| CONTINGENCY                      | 13,353.76           |
| ENGINEERING                      | 13,700.60           |
| INSPECTION                       | 10,880.64           |
| LEGAL                            | 2,500.00            |
| METER SETTINGS (26 @ \$300 Each) | 7,800.00            |
| <b>TOTAL PROJECT COST</b>        | <b>\$177,000.00</b> |

**PROJECT FINANCING:**

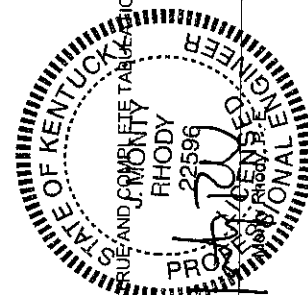
|                                |                     |
|--------------------------------|---------------------|
| METCALFE COUNTY FISCAL COURT   | \$177,000.00        |
| <b>TOTAL PROJECT FINANCING</b> | <b>\$177,000.00</b> |

MONARCH ENGINEERING, INC.  
556 Carlton Drive  
Lawrenceburg, KY 40342  
Phone (502) 839-1310  
Fax (502) 839-1373

**BID TABULATIONS**  
**CUMBERLAND COUNTY WATER DISTRICT**  
**JONES RIDGE WATER LINE EXTNSION**  
**CUMBERLAND COUNTY, KENTUCKY**

BID DATE: JANUARY 30, 2004 @ 10:00 A.M. LOCAL TIME

|                          |                                   |          | UNITED PIPELINE, INC.<br>48 HAGAN STREET<br>TOMPKINSVILLE, KY 42167 |            |            | CENTRAL PIPE & EXCAVATION, INC.<br>4098 HAPPY SPRINGS ROAD<br>RED BOILING SPRINGS, TN 37150 |            |             | TWIN STATES UTILITIES, INC.<br>2101 BRIMSTONE CREEK ROAD<br>MOSS, TN 38575 |            |  |
|--------------------------|-----------------------------------|----------|---|------------|------------|---|------------|-------------|--|------------|--|
| ITEM NO.                 | DESCRIPTION                       | QUANTITY | UNIT PRICE  | TOTAL COST | UNIT PRICE | TOTAL COST  | UNIT PRICE | TOTAL COST  | UNIT PRICE   | TOTAL COST |  |
| BASE CONTRACT            |                                   |          |   |            |            |   |            |             |  |            |  |
| 1                        | 4-Inch C900 Water Line            | 1,300 LF | \$4.25  | \$5,525.00 |            |   | \$12.30    | \$15,990.00 | \$5.85   | \$7,605.00 |  |
| 2                        | 4-Inch PVC SDR 21 Water Line      | 5,700 LF | 3.00  | 17,100.00  |            |   | 3.35       | 19095.00    | 5.09   | 29013.00   |  |
| 3                        | Bore & Case for 4-Inch Water Line | 30 LF    | 60.00   | 1,800.00   |            |   | 50.00      | 1500.00     | 50.00  | 1500.00    |  |
| 4                        | 4-Inch Gate Valve                 | 2 EA     | 350.00  | 700.00     |            |   | 500.00     | 1000.00     | 325.00   | 650.00     |  |
| 5                        | 4-Inch Blowoff Assembly           | 2 EA     | 500.00  | 1,000.00   |            |   | 600.00     | 1200.00     | 500.00   | 1000.00    |  |
| 6                        | Connection                        | 1 EA     | 500.00  | 500.00     |            |   | 1000.00    | 1000.00     | 800.00   | 800.00     |  |
| 7                        | Tandem Meter Setting              | 4 EA     | 400.00  | 1,600.00   |            |   | 450.00     | 1800.00     | 325.00   | 1300.00    |  |
| 8                        | 3/4-Inch Service Tubing           | 50 LF    | 2.00  | 100.00     |            |   | 4.00       | 200.00      | 5.00   | 250.00     |  |
| 9                        | Hydropneumatic Pump Station       | 1 EA     | 50,000.00   | 50,000.00  |            |   | 37,600.00  | 37600.00    | 45,100.00  | 45100.00   |  |
|                          | TOTAL BASE BID                    |          |   | 78,325.00  |            |   |            | 79,385.00   |  | 87,218.00  |  |
| ADDITIVE ALTERNATE NO. 1 |                                   |          |   |            |            |   |            |             |  |            |  |
| 1                        | 4-Inch PVC SDR 21 Water Line      | 13800 LF | 3.00  | 41,400.00  |            |   | 3.35       | 46,230.00   | 5.09   | 70,242.00  |  |
| 2                        | 3-Inch PVC SDR 21 Water Line      | 1500 LF  | 3.00  | 4,500.00   |            |   | 2.90       | 4,350.00    | 4.67   | 7,005.00   |  |
| 3                        | 4-Inch Gate Valve                 | 2 EA     | 350.00  | 700.00     |            |   | 500.00     | 1,000.00    | 325.00   | 650.00     |  |
| 4                        | 3-Inch Gate Valve                 | 1 EA     | 300.00  | 300.00     |            |   | 325.00     | 325.00      | 300.00   | 300.00     |  |
| 5                        | 4-Inch Blowoff Assembly           | 2 EA     | 500.00  | 1,000.00   |            |   | 600.00     | 1,200.00    | 500.00   | 1,000.00   |  |
| 6                        | 3-Inch Blowoff Assembly           | 1 EA     | 450.00  | 450.00     |            |   | 400.00     | 400.00      | 400.00   | 400.00     |  |
| 7                        | Standard Meter Setting            | 8 EA     | 300.00  | 2,400.00   |            |   | 350.00     | 2,800.00    | 300.00   | 2,400.00   |  |
| 8                        | Tandem Meter Setting              | 1 EA     | 400.00  | 400.00     |            |   | 450.00     | 450.00      | 325.00   | 325.00     |  |
| 9                        | 3/4-Inch Service Tubing           | 130 LF   | 2.00  | 260.00     |            |   | 4.00       | 520.00      | 5.00   | 650.00     |  |
| 10                       | Pavement Replacement              | 30 LF    | 30.00   | 900.00     |            |   | 17.00      | 510.00      | 25.00  | 750.00     |  |
|                          | TOTAL ADDITIVE ALTERNATE NO. 1    |          |   | 52,310.00  |            |   |            | 57,785.00   |  | 83,722.00  |  |



THE ABOVE IS A TRUE AND CORRECT TABULATION OF BIDS RECEIVED AT 10:00 A.M., LOCAL TIME, FRIDAY, JANUARY 30, 2004 AT THE CUMBERLAND COUNTY WATER DISTRICT.

BY: W. Rhody 2/2/04 DATE

|                                |                                   |          | GARRISON CONSTRUCTION CO., INC<br>6960 GREENSBURG ROAD<br>GREENSBURG, KY 42743 |            | SOUTHERN BACKHOE, INC.<br>296 WISE ROAD<br>CAMPBELLSVILLE, KY 42718 |            | MEADOWS ENTERPRISES, INC.<br>PO BOX 343/464 S GRUNDY QUARLES HWY<br>GAINESBORO, TN 38562 |             |
|--------------------------------|-----------------------------------|----------|--|------------|---|------------|--|-------------|
| ITEM NO.                       | DESCRIPTION                       | QUANTITY | UNIT PRICE   | TOTAL COST | UNIT PRICE  | TOTAL COST | UNIT PRICE   | TOTAL COST  |
| BASE CONTRACT                  |                                   |          |  |            |   |            |  |             |
| 1                              | 4-Inch C900 Water Line            | 1,300 LF | 4.65   | \$6,045.00 |   |            |  |             |
| 2                              | 4-Inch PVC SDR 21 Water Line      | 5,700 LF | 3.74   | 21,318.00  | 7.60  | \$9,880.00 | 11.50  | \$14,950.00 |
| 3                              | Bore & Case for 4-Inch Water Line | 30 LF    | 64.66  | 1,939.80   | 7.00  | 39,900.00  | 4.00   | 22,800.00   |
| 4                              | 4-Inch Gate Valve                 | 2 EA     | 375.50   | 751.00     | 80.00   | 2,400.00   | 75.00  | 2,250.00    |
| 5                              | 4-Inch Blowoff Assembly           | 2 EA     | 747.02   | 1,494.04   | 340.00  | 680.00     | 450.00   | 900.00      |
| 6                              | Connection                        | 1 EA     | 1,103.40   | 1,103.40   | 600.00  | 1,200.00   | 475.00   | 950.00      |
| 7                              | Tandem Meter Setting              | 4 EA     | 392.01   | 1,568.04   | 1,000.00  | 1,000.00   | 1,200.00   | 1,200.00    |
| 8                              | 3/4-Inch Service Tubing           | 50 LF    | 6.23   | 311.50     | 300.00  | 1,200.00   | 400.00   | 1,600.00    |
| 9                              | Hydropneumatic Pump Station       | 1 EA     | 55,369.22  | 55,369.22  | 4.00  | 200.00     | 2.00   | 100.00      |
| TOTAL BASE BID                 |                                   |          |  | 89,900.00  | 35,000.00   | 35,000.00  | 59,500.00  | 59,500.00   |
| ADDITIVE ALTERNATE NO. 1       |                                   |          |  |            |   | 91,480.00  |  | 104,250.00  |
| 1                              | 4-Inch PVC SDR 21 Water Line      | 13800 LF | 3.74   | 51,612.00  | 7.00  | 96,600.00  | 4.00   | 55,200.00   |
| 2                              | 3-Inch PVC SDR 21 Water Line      | 1500 LF  | 3.37   | 5,055.00   | 6.60  | 9,900.00   | 3.50   | 5,250.00    |
| 3                              | 4-Inch Gate Valve                 | 2 EA     | 375.50   | 751.00     | 340.00  | 680.00     | 450.00   | 900.00      |
| 4                              | 3-Inch Gate Valve                 | 1 EA     | 350.23   | 350.23     | 310.00  | 310.00     | 400.00   | 400.00      |
| 5                              | 4-Inch Blowoff Assembly           | 2 EA     | 747.02   | 1,494.04   | 340.00  | 680.00     | 475.00   | 950.00      |
| 6                              | 3-Inch Blowoff Assembly           | 1 EA     | 680.31   | 680.31     | 600.00  | 600.00     | 425.00   | 425.00      |
| 7                              | Standard Meter Setting            | 8 EA     | 307.75   | 2,462.00   | 260.00  | 2,080.00   | 300.00   | 2,400.00    |
| 8                              | Tandem Meter Setting              | 1 EA     | 392.01   | 392.01     | 300.00  | 300.00     | 400.00   | 400.00      |
| 9                              | 3/4-Inch Service Tubing           | 130 LF   | 6.33   | 822.90     | 4.00  | 520.00     | 2.00   | 260.00      |
| 10                             | Pavement Replacement              | 30 LF    | 20.90  | 627.00     | 10.00   | 300.00     | 10.00  | 300.00      |
| TOTAL ADDITIVE ALTERNATE NO. 1 |                                   |          |  | 64,246.49  |   | 111,970.00 |  | 66,485.00   |

MONARCH ENGINEERING, INC.  
556 Carlton Drive  
Lawrenceburg, KY 40342  
Phone (502) 839-1310  
Fax (502) 839-1373

**BID TABULATIONS**  
**CUMBERLAND COUNTY WATER DISTRICT**  
**WATER SYSTEM EXTENSIONS**  
**FERRIS FORK AND CASEY FORK AREAS**  
**CUMBERLAND COUNTY, KENTUCKY**

BID DATE: JANUARY 30, 2004 @ 10:00 A.M. LOCAL TIME

|          |                                      |           | CENTRAL PIPE & EXCAVATION, INC.<br>4098 HAPPY SPRINGS ROAD<br>RED BOILING SPRINGS, TN 37150 |             | UNITED PIPELINE, INC.<br>48 HAGAN STREET<br>TOMPKINSVILLE, KY 42167 |             | TWIN STATES UTILITIES, INC.<br>2101 BRIMSTONE CREEK RD<br>MOSS, TN 38575 |              |
|----------|--------------------------------------|-----------|---|-------------|---|-------------|--|--------------|
| ITEM NO. | DESCRIPTION                          | QUANTITY  | UNIT PRICE  | TOTAL COST  | UNIT PRICE  | TOTAL COST  | UNIT PRICE   | TOTAL COST   |
|          | BASE CONTRACT                        |           |   |             |   |             |  |              |
| 1        | 4-Inch PVC SDR 21 Water Line         | 29,000 LF | 3.35  | \$97,150.00 |   |             |  |              |
| 2        | 3-Inch PVC SDR 21 Water Line         | 5,500 LF  | 2.90  | 15,950.00   | \$3.25  | \$94,250.00 | 4.05   | \$117,450.00 |
| 3        | Bore & Case for 4-Inch Water Line    | 60 LF     | 45.00   | 2,700.00    | 3.00  | 16,500.00   | 3.68   | 20,240.00    |
| 4        | Bore & Case for 3-Inch Water Line    | 30 LF     |   |             | 60.00   | 3,600.00    | 50.00  | 3,000.00     |
| 5        | Creek Crossing for 4-Inch Water Line | 200 LF    | 40.00   | 1,200.00    | 60.00   | 1,800.00    | 50.00  | 1,500.00     |
| 6        | Creek Crossing for 3-Inch Water Line | 40 LF     | 25.00   | 5,000.00    | 50.00   | 10,000.00   | 30.00  | 6,000.00     |
| 7        | 4-Inch Gate Valve                    | 5 EA      | 23.00   | 920.00      | 50.00   | 2,000.00    | 30.00  | 1,200.00     |
| 8        | 3-Inch Gate Valve                    | 2 EA      | 280.00  | 1,400.00    | 350.00  | 1,750.00    | 325.00   | 1,625.00     |
| 9        | Connection                           | 2 EA      | 260.00  | 520.00      | 300.00  | 600.00      | 300.00   | 600.00       |
| 10       | 4-Inch Blowoff Assembly              | 5 EA      | 700.00  | 1,400.00    | 1,200.00  | 2,400.00    | 800.00   | 1,600.00     |
| 11       | 3-Inch Blowoff Assembly              | 2 EA      | 385.00  | 1,925.00    | 500.00  | 2,500.00    | 500.00   | 2,500.00     |
|          |                                      |           | 300.00  | 600.00      | 450.00  | 900.00      | 400.00   | 800.00       |
|          | TOTAL BASE BID                       |           |   | 128,765.00  |   | 136,300.00  |  | 156,515.00   |

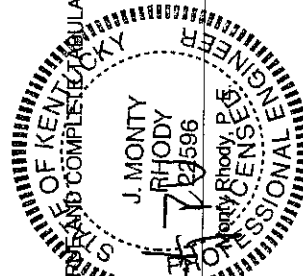
THE ABOVE IS A TRUE AND CORRECT TABULATION OF BIDS RECEIVED AT 10:00 A.M., LOCAL TIME, FRIDAY, JANUARY 30, 2003 AT THE CUMBERLAND COUNTY WATER DISTRICT.

BY:

J. MONTY  
RHODY  
P.E.  
596

DATE

2/2/04



| ITEM NO. | DESCRIPTION                          | QUANTITY  | GARRISON CONSTRUCTION CO., INC. |                   | MEADOWS ENTERPRISES, INC. |                   | SOUTHERN BACKHOE, INC. |                   |
|----------|--------------------------------------|-----------|---------------------------------|-------------------|---------------------------|-------------------|------------------------|-------------------|
|          |                                      |           | UNIT PRICE                      | TOTAL COST        | UNIT PRICE                | TOTAL COST        | UNIT PRICE             | TOTAL COST        |
|          | <b>BASE CONTRACT</b>                 |           |                                 |                   |                           |                   |                        |                   |
| 1        | 4-Inch PVC SDR 21 Water Line         | 29,000 LF | 3.96                            | \$114,840.00      |                           |                   |                        |                   |
| 2        | 3-Inch PVC SDR 21 Water Line         | 5,500 LF  | 3.50                            | 19,250.00         | 4.50                      | \$130,500.00      | 5.40                   | \$156,600.00      |
| 3        | Bore & Case for 4-Inch Water Line    | 60 LF     | 81.16                           | 4,869.60          | 3.75                      | 20,625.00         | 5.00                   | 27,500.00         |
| 4        | Bore & Case for 3-Inch Water Line    | 30 LF     | 76.89                           | 2,306.70          | 75.00                     | 4,500.00          | 90.00                  | 5,400.00          |
| 5        | Creek Crossing for 4-Inch Water Line | 200 LF    | 41.46                           | 8,292.00          | 65.00                     | 1,950.00          | 80.00                  | 2,400.00          |
| 6        | Creek Crossing for 3-Inch Water Line | 40 LF     | 39.91                           | 1,596.40          | 25.00                     | 5,000.00          | 100.00                 | 20,000.00         |
| 7        | 4-Inch Gate Valve                    | 5 EA      | 331.50                          | 1,657.50          | 20.00                     | 800.00            | 100.00                 | 4,000.00          |
| 8        | 3-Inch Gate Valve                    | 2 EA      | 300.73                          | 601.46            | 450.00                    | 2,250.00          | 340.00                 | 1,700.00          |
| 9        | Connection                           | 2 EA      | 985.70                          | 1,971.40          | 400.00                    | 800.00            | 310.00                 | 620.00            |
| 10       | 4-Inch Blowoff Assembly              | 5 EA      | 589.58                          | 2,947.90          | 1,000.00                  | 2,000.00          | 1,000.00               | 2,000.00          |
| 11       | 3-Inch Blowoff Assembly              | 2 EA      | 504.31                          | 1,008.62          | 475.00                    | 2,375.00          | 650.00                 | 3,250.00          |
|          | <b>TOTAL BASE BID</b>                |           |                                 | <b>159,341.58</b> | 425.00                    | 850.00            | 600.00                 | 1,200.00          |
|          |                                      |           |                                 |                   |                           | <b>171,650.00</b> |                        | <b>224,670.00</b> |

**PRELIMINARY ENGINEERING REPORT  
FOR THE  
CUMBERLAND COUNTY WATER DISTRICT  
WATER SYSTEM EXTENSIONS**

**JONES RIDGE, CASEY FORK  
& FERRIS FORK AREAS**

**AUGUST 2003**

**PRELIMINARY ENGINEERING REPORT**  
**WATER SYSTEM EXTENSIONS**  
**CUMBERLAND COUNTY WATER DISTRICT**  
**CUMBERLAND COUNTY, KENTUCKY**

**I.     GENERAL**

This Preliminary Engineering Report is intended to analyze the proposed water system extension that is being planned by the Cumberland County Water District to serve first time customers with potable water in the Jones Ridge, Casey Fork and Ferris Fork areas. Included in this report are maps of the proposed service area showing the intended routes of the water lines and the location of the major appurtenances. Included in this report are project cost estimates which outline all of the project costs along with the proposed financing scheme.

**II.    PROJECT PLANNING AREA**

The areas to be served with potable water for the first time are located in Cumberland County and Metcalf County as shown on the attached maps. Those three areas are locally referred to as Jones Ridge, Casey Fork and Ferris Fork areas. Jones Ridge area is located just north of Burkesville off of Kentucky Highway 61. Casey Fork and Ferris Fork areas are located in Metcalf County near the Cumberland County / Metcalf County Line. These areas are delineated on the attached maps.

The topography of Jones Ridge area is a steep ridge and the Casey Fork and Ferris Fork areas are rolling hills. The land use in these areas is mainly agricultural with some light timber harvesting in the steeper sloped areas. Within the proposed service area there are no major commercial or industrial businesses expected.

The residents in these communities have never been served by a public water system and most rely on creeks, wells or community springs, which are known to be contaminated. There are no cisterns and thus there is no possibility that these residences can transport their water by commercial water haulers. People in these areas carry water to their homes by means of barrels, buckets, jugs, old milk cartons, or other containers. They often make daily trips to the nearest water source, none of which are monitored by an approved health agency. It is not anticipated that a significant growth pattern will emerge as a result of the implementation of a domestic water supply but rather that the standard of living for those residents will be greatly improved.

**III.   EXISTING FACILITIES**

The Cumberland County Water District owns and operates its water distribution system that serves nearly 1,750 residential and nonresidential customers that reside throughout



Cumberland County. This Water District is the result of a merger between the Marrowbone Water District and the South Cumberland Water District, both of which District's serve the rural areas of Cumberland County. This merger was completed in 1996 and was a part of a project that linked the two District's together via a transmission line through the Jackson Hollow, along with an expansion to the water treatment plant which is located in the Marrowbone service area. The Water District's were formed in 1960's and at that time the Marrowbone system built a water treatment plant to treat water that was supplied by the Cumberland River. The South Cumberland system opted to purchase all of its water supply from the City of Burkesville.

As a result of the merger, the treatment plant located near the Leslie community continues to provide water to all of the old Marrowbone system which is located north of the Cumberland River, and also provides water to a portion of the old South Cumberland system which is located south of the Cumberland River. In addition, the old South Cumberland area continues to be supplied by the City of Burkesville and the City of Albany.

The Water District operates the water system through a Board of Commissioners which consists of the chairman and four commissioners which are appointed by the Cumberland County Fiscal Court.

#### IV. NEED FOR THE PROJECT

This project is intended to eliminate a serious health hazard in the communities in which it will serve by providing first time potable water service to those residents that reside within those communities. As mentioned earlier, the use of unsafe and potentially contaminated water for drinking and other vital human needs is prevalent. It is well known and confirmed by the local health agency that ground water, springs, and surface water from creeks and streams is unfit for human consumption.

It is anticipated that 29 homes will be immediately affected by the project and potentially 15 more that could use the water service shortly after the project is put into service. These three areas which are mentioned above and shown on the attached maps are located in a geographic area where rock conditions are prevalent prohibiting the Water District from providing a water system by their own means. The terrain is over laden with visible rock outcroppings and numerous creek crossings with limited access along the public roadway.

The City of Albany has just completed a major extension of their water system which included the construction of a eight inch water line that terminated at the Clinton / Cumberland County boundary. The Cumberland County Water District is currently upgrading infrastructure and building a new booster pump station which will increase there capabilities of buying water from Albany from 50,000 gallons per day to 200,000 gallons per day. This supplemental supply will support the Water District during periods of low water supply and could even provide water to the City of Burkesville in an emergency.

## V. ALTERNATIVES CONSIDERED

Based on the fact that there are no other major potable water suppliers that are situated to serve these three areas, the Cumberland County Water District is the only logical entity that is in position to provide water service. The Water District is regulated by the Kentucky Division of Water and also the Kentucky Public Service Commission. The City of Burkesville and the City of Albany supplies water to the District and they along with the Water District are the only major public water suppliers in Cumberland County. Therefore, based on these factors, the proposed method of service is the only alternative that exists to adequately serve these residences that reside within the Jones Ridge, Casey Fork and Ferris Fork areas.

## VI. PROPOSED PROJECT

The proposed project consists of the installation of 50,000 feet of four inch water line and 7,000 feet of three inch water line and a hydropneumatic booster pump station the 30 new customers. An itemized cost estimate is included in this report and it outlines all of the individual construction items along with their associated estimated unit costs. A summary cost estimate summarizes all of the project costs and outlines the funding scheme for the project which is also included in this report.

This project proposes to serve new customers with a safe and potable water supply in the areas as shown on the attached maps. The current water system will continue to serve the Water District without over extending the capacity of the water supply and distribution system. Water lines are planned to be installed adjacent to the public rights of ways and all residences interested in obtaining water service will be served by the new water lines.

The project cost has been estimated to be \$384,000 and it is to be financed by \$171,000 loan from the Rural Development, 177,000 from Metcalf County Fiscal Court and \$36,000 from Cumberland County Water District.

## VII. CONCLUSIONS AND RECOMMENDATIONS

Based on the desperate need for the residents in these communities to have a potable water supply it is recommended that the Cumberland County Water District pursue the financial assistance as outlined above in order that this unhealthy situation can be corrected. The Cumberland County Water District is the only major supplier of potable water within this rural area of Cumberland County and their system is situated such that these extensions as proposed could be made without affecting service to their existing customers.

**PRELIMINARY COST ESTIMATE  
FERRIS FORK & CASEY FORK  
CUMBERLAND COUNTY WATER DISTRICT  
NOVEMBER 2003**

| ITEM NO.           | DESCRIPTION                          | QUANTITY  | UNIT COST | TOTAL COST   |
|--------------------|--------------------------------------|-----------|-----------|--------------|
| 1                  | 4-Inch PVC SDR 21 Water Line         | 26,550 LF | 4.00      | 106,200.00   |
| 2                  | 3-Inch PVC SDR 21 Water Line         | 5,200 LF  | 3.00      | 15,600.00    |
| 3                  | Bore & Case for 4-Inch Water Line    | 60 LF     | 50.00     | 3,000.00     |
| 4                  | Bore & Case for 3-Inch Water Line    | 20 LF     | 50.00     | 1,000.00     |
| 5                  | Creek Crossing for 4-Inch Water Line | 200 LF    | 40.00     | 8,000.00     |
| 6                  | Creek Crossing for 3-Inch Water Line | 40 LF     | 40.00     | 1,600.00     |
| 7                  | 4-Inch Gate Valve                    | 5 EA      | 400.00    | 2,000.00     |
| 8                  | 3-Inch Gate Valve                    | 2 EA      | 350.00    | 700.00       |
| 9                  | Connection                           | 2 EA      | 1,000.00  | 2,000.00     |
| 10                 | 4-Inch Blow Off Assembly             | 5 EA      | 600.00    | 3,000.00     |
| 11                 | 3-Inch Blow Off Assembly             | 2 EA      | 500.00    | 1,000.00     |
| Subtotal           |                                      |           |           | \$144,100.00 |
| Contingency        |                                      |           |           | 13,900.00    |
| Total Construction |                                      |           |           | \$158,000.00 |

**PRELIMINARY COST ESTIMATE  
JONES RIDGE AREA  
CUMBERLAND COUNTY WATER DISTRICT  
NOVEMBER 2003**

**BASE CONTRACT**

| ITEM NO.           | DESCRIPTION                  | QUANTITY | UNIT COST | TOTAL COST   |
|--------------------|------------------------------|----------|-----------|--------------|
| 1                  | 4-Inch PVC C900 Water Line   | 1,200 LF | \$4.50    | \$5,400.00   |
| 2                  | 4-Inch PVC SDR 21 Water Line | 5,400 LF | 4.00      | 21,600.00    |
| 3                  | 4-Inch Gate Valve            | 2 EA     | 400.00    | 800.00       |
| 4                  | Connection                   | 1 EA     | 1,000.00  | 1,000.00     |
| 5                  | 4-Inch Blow Off Assembly     | 2 EA     | 600.00    | 1,200.00     |
| 6                  | Tandem Meter Setting         | 4 EA     | 400.00    | 1,600.00     |
| 7                  | 3/4-Inch Service Tubing      | 200 LF   | 3.00      | 600.00       |
| 8                  | Hydropneumatic Pump Station  | 1 EA     | 60,000.00 | 60,000.00    |
| Subtotal           |                              |          |           | \$92,200.00  |
| Contingency        |                              |          |           | 9,800.00     |
| Total Construction |                              |          |           | \$102,000.00 |

**PRELIMINARY COST ESTIMATE  
JONES RIDGE AREA  
CUMBERLAND COUNTY WATER DISTRICT  
NOVEMBER 2003**

**ALTERNATE AREA**

| ITEM NO.           | DESCRIPTION                       | QUANTITY  | UNIT COST | TOTAL COST  |
|--------------------|-----------------------------------|-----------|-----------|-------------|
| 1                  | 4-Inch PVC SDR 21 Water Line      | 12,630 LF | 4.00      | 50,520.00   |
| 2                  | 3-Inch PVC SDR 21 Water Line      | 1,500 LF  | 3.00      | 4,500.00    |
| 3                  | Bore & Case for 4-Inch Water Line | 30 LF     | 50.00     | 1,500.00    |
| 4                  | 4-Inch Gate Valve                 | 3 EA      | 400.00    | 1,200.00    |
| 5                  | 3-Inch Gate Valve                 | 1 EA      | 350.00    | 350.00      |
| 6                  | 3-Inch Blow Off Assembly          | 2 EA      | 500.00    | 1,000.00    |
| 7                  | Standard Meter Setting            | 8 EA      | 300.00    | 2,400.00    |
| 8                  | Tandem Meter Setting              | 1 EA      | 400.00    | 400.00      |
| 9                  | 3/4-Inch Service Tubing           | 450 LF    | 3.00      | 1,350.00    |
| Subtotal           |                                   |           |           | \$63,220.00 |
| Contingency        |                                   |           |           | 6,780.00    |
| Total Construction |                                   |           |           | \$70,000.00 |

**PRELIMINARY COST ESTIMATE  
JONES RIDGE, CASEY FORK AND FERRIS FORK AREAS  
CUMBERLAND COUNTY WATER DISTRICT  
NOVEMBER 2003**

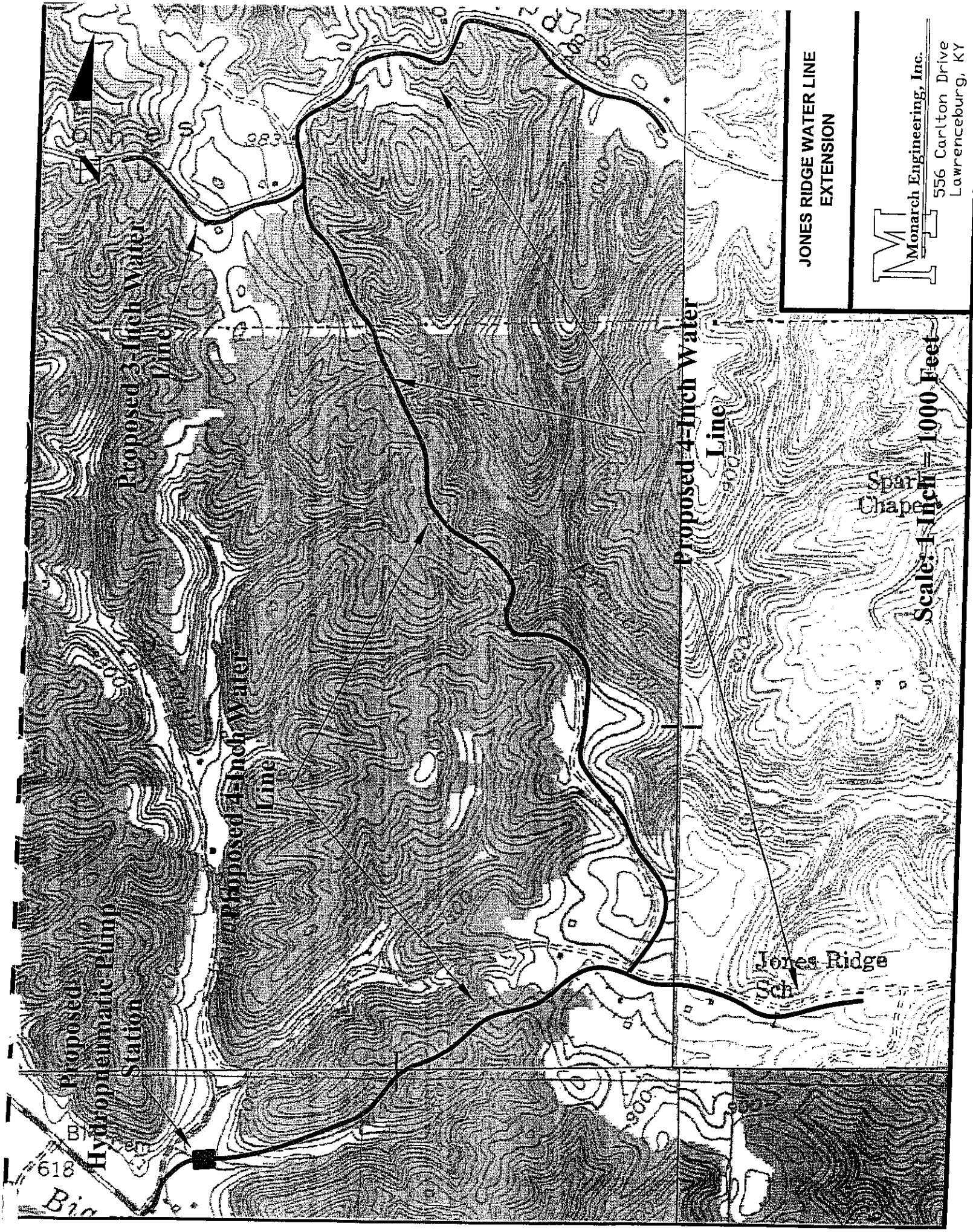
**ENTIRE PROJECT AREA**

**PROJECT COSTS**

|                            |                     |
|----------------------------|---------------------|
| DEVELOPMENT                | \$299,520.00        |
| CONTINGENCY                | 30,480.00           |
| ENGINEERING DESIGN         | 31,000.00           |
| CONSTRUCTION INSPECTION    | <u>23,000.00</u>    |
| <b>TOTAL PROJECT COSTS</b> | <b>\$384,000.00</b> |

**PROJECT FINANCING**

|   |                     |
|---|---------------------|
| RURAL DEVELOPMENT                                 | \$171,000.00        |
| METCALF COUNTY FISCAL COURT                       | 177,000.00          |
| ADDITIONAL FUNDS NEEDED TO COMPLETE ALTERNATE BID | <u>36,000.00</u>    |
| <b>TOTAL PROJECT FINANCING</b>                    | <b>\$384,000.00</b> |



JONES RIDGE WATER LINE  
EXTENSION



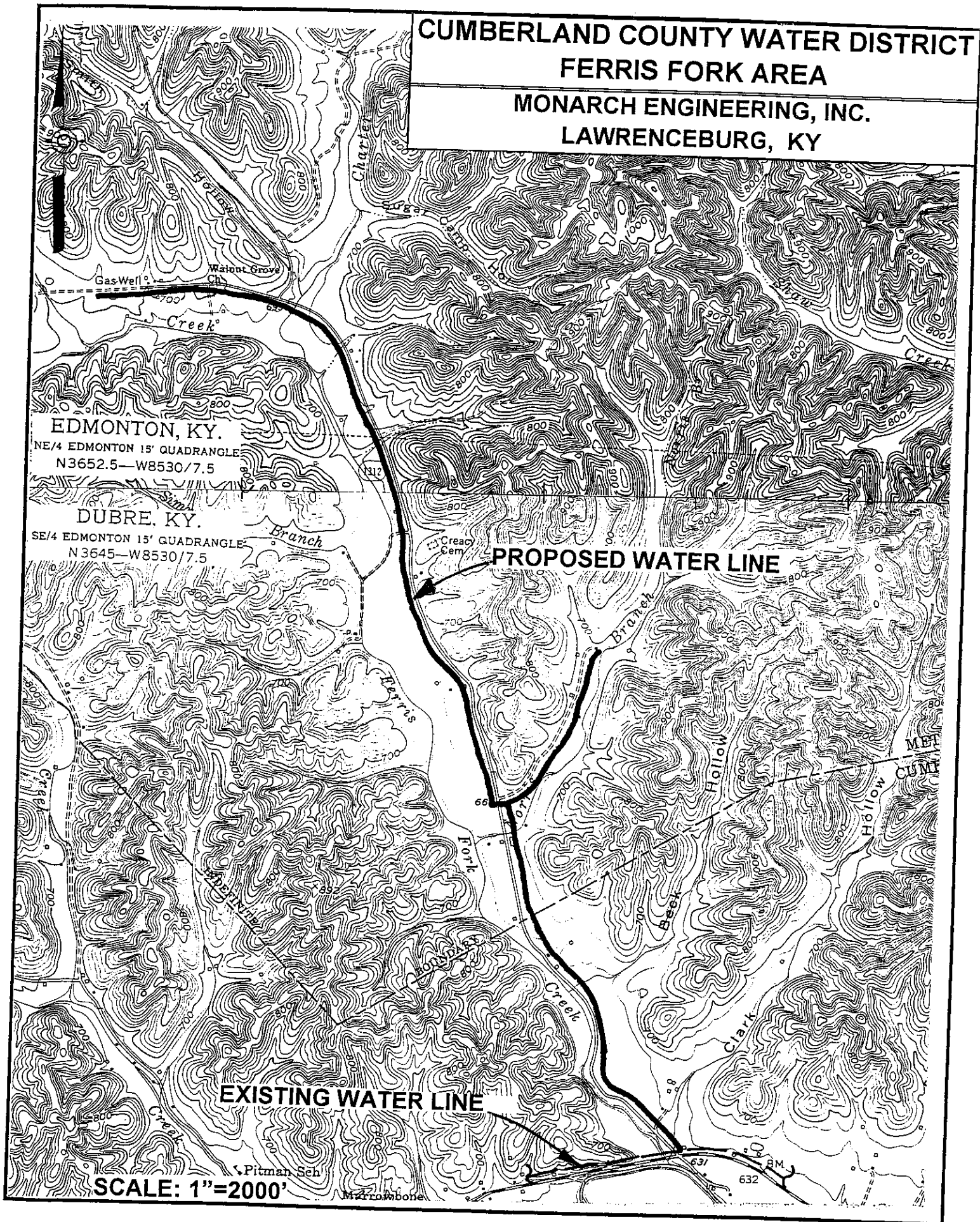
Monarch Engineering, Inc.  
556 Carlton Drive  
Lawrenceburg, KY

Spartan  
Chapel

Scale: 1 Inch = 1000 Feet



**CUMBERLAND COUNTY WATER DISTRICT  
FERRIS FORK AREA  
MONARCH ENGINEERING, INC.  
LAWRENCEBURG, KY**





**PROPOSED WATER LINE**

**EDMONTON, KY.**

NE/4 EDMONTON 15' QUADRANGLE  
N3652.5—W8530/7.5

**DUBRE, KY.**

SE/4 EDMONTON 15' QUADRANGLE  
N3645—W8530/7.5

**EXISTING WATER LINE**

**CUMBERLAND COUNTY WATER DISTRICT  
CASEY FORK AREA**

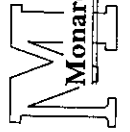
**MONARCH ENGINEERING, INC.  
LAWRENCEBURG, KY**

**SCALE: 1"=2000'**

# CASEY FORK AND FERRIS FORK AREAS

## JONES RIDGE AREA

PROJECT LOCATION MAP



Monarch Engineering, Inc.

556 Carlton Drive  
Lawrenceburg, KY

